**PRACTICAL -2**

**Aim:** Mono-alphabetic Cipher Encryption – Decryption.

#include <stdio.h>

#include <string.h>

int main()

{

char pt[26] = {'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v',  'w', 'x', 'y', 'z'};

char ct[26] = {'z', 'y', 'x', 'w', 'v', 'u', 't', 's', 'r', 'q', 'p', 'o', 'n', 'm', 'l', 'k', 'j', 'i', 'h', 'g', 'f', 'e',  'd', 'c', 'b', 'a'};

char p[20] = {'\0'}, c[20] = {'\0'}, r[20] = {'\0'};

printf("Enter the plain text: ");

scanf("%s", p);

for (int i = 0; i < strlen(p); i++)

{

for (int j = 0; j < 26; j++)

{

if (pt [ j ] == p[ i ])

c[ i ] = ct [ j ];

}

}

printf ("Cipher text is: %s", c);

for (int i = 0; i < strlen(c); i++)

{

for (int j = 0; j < 26; j++)

{

if (ct [ j ] == c[ i ])

r[ i ] = pt [ j ];

}

}

printf("\nPlain text is: %s", r);

return 0;

}